

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/651,991
Source: JFWO
Date Processed by STIC: 11-22-04

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IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/651,991

DATE: 11/22/2004

TIME: 11:35:44

Input Set : D:\76480023.app

Output Set: N:\CRF4\11192004\J651991.raw

3 <110> APPLICANT: CAIRNEY, JOHN
 4 XU, NANFIE
 6 <120> TITLE OF INVENTION: DIFFERENTIALLY-EXPRESSED CONIFER cDNAs, AND THEIR USE
 7 IN IMPROVING SOMATIC EMBRYOGENESIS
 9 <130> FILE REFERENCE: 7648.0023-00
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/651,991
 C--> 12 <141> CURRENT FILING DATE: 2003-09-02
 14 <150> PRIOR APPLICATION NUMBER: 60/239,250
 15 <151> PRIOR FILING DATE: 2000-10-11
 17 <150> PRIOR APPLICATION NUMBER: 60/260,882
 18 <151> PRIOR FILING DATE: 2001-01-12
 20 <160> NUMBER OF SEQ ID NOS: 339
 22 <170> SOFTWARE: PatentIn Ver. 2.1
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 567
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Pinus taeda
 29 <400> SEQUENCE: 1
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 31 tatcattgac aacagcgaaa aatgtggcgc aagaagtttc acatacaatt catgggttaca 120
 32 aagatcacat accaggtggt ggagcagatt cgatagatat tgaagatat aagccaagga 180
 33 gtggagcagt tattgaaaag ggcacaaaaa aatttgccat ttacaaagat gaaaatgggc 240
 34 tgattcacia atactcggca atatgccac acatgaactg tattgtgaaa tggaatccta 300
 35 tagactcaac tttcgattgc ccctgcccag gttcaatgtt tgataatctg ggtcgatgca 360
 36 tcaatggacc tgccaaggcg gacctatttc ccgaagatta acgatagttg tttgtacatg 420
 37 taattatctt gatattgtat atatatgtat ttaaattata cagtacaata aatccatggt 480
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 39 tgtttttccc ctggcaaaaa aaaaaaa 567
 42 <210> SEQ ID NO: 2
 43 <211> LENGTH: 276
 44 <212> TYPE: DNA
 45 <213> ORGANISM: Pinus taeda
 47 <400> SEQUENCE: 2
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 49 tgcagtggat atatacaatg tatatgtact ctgtctgtt ttctgttatt tgacgggaaat 120
 50 aaaaacgcca tagcgacgga tgactgtaaa tccttaggga cggatgactg taaatcctta 180
 51 gggttgaaga ttacaaacga catatgggtc tttcaatttt cagatttctg taagacttac 240
 52 atttcaaaga ctgtttggat gggcaaaaaa aaaaaa 276
 55 <210> SEQ ID NO: 3
 56 <211> LENGTH: 267
 57 <212> TYPE: DNA
 58 <213> ORGANISM: Pinus taeda
 60 <400> SEQUENCE: 3

(pg. 6)

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61 ggtactccac cagaatgccg cagtttagtt ctctaaagca agcagtaaat taattttgtc 60
62 aaaatctaaa gagtgtatag tatcagtggg tttgtatttc ctagtgtgcc tacaataacg 120
63 atgggggattc accagttttt gtagaatttg caatcatcgg atgacaattt caaagttttc 180
64 tctaagtcac ccgcattgat atcgagaagc cttccatttt caattattta atatcagaaa 240
65 atcttttcag ttggcaaaaa aaaaaaa 267
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76 atgctcgagc gccgcagtgat gatgaattgc agaatcggct ggtactcacg ggctagagaa 180
77 aggcacaagc actttttgtc atttttaggat cagaggcatt caggtatagg aaggggtggct 240
78 catataggca gatggatcgg cattttgccc agtcatgaaa cattttatgc atgttattgc 300
79 ctcccaagga cgaaatcagt tctttgtgcc ttctgggtgat atcaattcaa acaaaaaggca 360
80 acagtctctgt gatttcatat ggtttgtcac tgaatatttt gttgcagatg ttctctacta 420
81 ttttttatct gctttcaagt gattatttgt tgattcccca tggatagtta tgctaatacag 480
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94 ccaaagagtg gaatgcttta ttgaaccagca agacottgaa atttttataa ccaatgcca 180
95 tcaacagagc ctttcttaaa aaacgcaaaag ccagctctg tcaccttatt agttagtata 240
96 aactgacatt cttccaagct tgtgtgcgca gaaacaataa agaacttcac cttggtttaa 300
97 agaacgtgcc atgaagaaaa cgtcccaaga aaaatgaaat ggctccttcg accattcagt 360
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103 <211> LENGTH: 434
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110 tgaacatttt tatgcatgtt attgcctccc aaggacgaaa tcagttcttt gtgccttctg 180
111 gtgatatac ttcaacaaa aggcaacagt tctgtgattt catatggttt gtcactgaat 240
112 attttgttgc agatgttctc tactattttt tatctgcttt caagtgatta tttgttgatt 300
113 ccccatggat agttatgcta atcagttgca tttctcttgc accagtcaac aaacaaaaaat 360
114 gcttgttaga atccattact atttattttc agacaggtaa acgtgtagct aattgttctg 420
115 gcaaaaaaaa aaaa 434
118 <210> SEQ ID NO: 7
119 <211> LENGTH: 540
120 <212> TYPE: DNA

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Input Set : D:\76480023.app

Output Set: N:\CRF4\11192004\J651991.raw

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125 agatgcatgc tcgagcggcc gcaggatgat gatatctgca gaattcgctt ggtactccac 120
126 ggctagagaa aaggcacaag cacttcttcg tcattttagg atcagaggca ttcagggtata 180
127 ggaaggggtg tcagataggc agatggatcg gcattttgcc cagtcatgaa acattttatg 240
128 catgttattg cctcccaagg acgaaatcag ttctttgtgc cttctggtga taccatttca 300
129 aacaaaaggc aacagttctg tgatttcata tggtttgtca ctgaatatat tgttgagat 360
130 gttctctact attttttatc tgctttcaag tgattatttg ttgattcccc atggatagtt 420
131 atgctaataca gttgcatttc tcttgtagca gtcaacaaac aaaaatgctt gtaggaatcc 480
132 attactatatt attttcagac aggtaaacgt gtagctaatt gttctggcaa aaaaaaaaaa 540
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136 <211> LENGTH: 794
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140 <400> SEQUENCE: 8
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142 gatcagagaa gagcaggaaa tgagtcacc tgaggaatcc tggagacaga aacaggggcg 120
143 tttaatggag tttaggcag ggatggccta tgataaacct gaaaatgccg gtgcaggtaa 180
144 tgagaatttg ccagagtttt gctctctttc aaatgagtag tcgatgttat tgaaagatcc 240
145 atggagttgg gaggatagca ctggtttcgg aatccgaagc ttagctgctg tcaggaagca 300
146 gtcttgata ttggactatc tccatgattc tgctgtagat aatcgctgtg aaaaggattt 360
147 tgccgagcag cacaaggtac aggaagagga ggattgtttg agaaggtctc tttttgaagc 420
148 cacagatgat cagctctgga ggcttcagag tctttgcagg atacagaagg tctgtttcct 480
149 ctggattccg tgggtagcca tgattgcacg acctgtgtgc aggatgagag cattgttcag 540
150 ggcgctgctt cttacttcag aatttgggaa caggatgatg gtcacaagga tgccaaaatt 600
151 catgaagatg gcattggttt tgtgtatggg agtgggatct cggattggat tcggagggct 660
152 ccctcgaatc aatctgagtt ttctgaatct gttgaatttg aaagctctat gttttcactg 720
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154 gcaaaaaaaaa aaaa 794
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165 atgttgctgg cagtagagct ggagatgtgc tgtctctttg gtgtcattag cacagaagct 180
166 attggagaaa tgattattat ctgtttgata acttctagag catttttctg cttccaattc 240
167 cacaaggtgg aaagtgcaag gatgtttact ttcttaact gtacttgctt tgtatttgat 300
168 gatgtaagggt tgtgtggcaa aaaaaaaaaa 330
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172 <211> LENGTH: 515
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178 ccgtcgtttt cttgatctcg gagccaagca agtggatgtg atcactaaat gttgctggca 120
179 gtagagctgg agatgtgctg tctctttggg tcattagcac agaagctatt ggagaaatga 180

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180 ttatggtatt ccaccatatt caggtaaaca agggaaaaca gagctcagct tctagtatgt 240
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182 actaaatggt gctggcagta gagctggaga tgtgctgtct ctttgggtgc attagcacag 360
183 aagctattgg agaaatgatt attatctggt tgataacttc tagagcattt ttctgcttcc 420
184 aattccacaa ggtggaaagt gcaaggatgt ttactttctt aaactgtact tgccttgat 480
185 ttgatgatgt aaggttgtgt ggcaaaaaaa aaaaaa 515
188 <210> SEQ ID NO: 11
189 <211> LENGTH: 331
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195 tgccctgctc tgtctgtttt ctttgatctt tgatgccaaag caagttgaat gtgatcacta 120
196 aatgttgctg gcagtagagc tggagatgtg ctgtctcttt ggtgtcatta gcacagaagc 180
197 tattggagaa atgattatta tctgtttacat aacttataga gcatttttct gcttccaatt 240
198 ccacaagggt gaaagtgcaa ggatgtttac tttcttaaac tgtacttgcc ttgtatttga 300
199 tgatgtaagg ttgtgtggca aaaaaaaaaa a 331
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203 <211> LENGTH: 241
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210 ggtactcggc ctttgttgga atgtagtctg gttaatttat atgtatatgt aaccttgggg 180
211 tttcgagccc agttctctgt tcttcttgaa atgaaatgcg atttgttcta aaaaaaaaaa 240
212 a 241
215 <210> SEQ ID NO: 13
216 <211> LENGTH: 247
217 <212> TYPE: DNA
218 <213> ORGANISM: Pinus taeda
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222 ttaagagagg agacttacct cacacatgta cagcttttta ttgtcgtgct ttcagttgat 120
223 ggatgattgt tgtagtctcg tcatgggttg gacaattttc atcatcctaa agatccaaga 180
224 attcatgtgg caagaaactt taataaagtc aaatataatc cgatgacgta accctaaaaa 240
225 aaaaaaa 247
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233 <400> SEQUENCE: 14
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236 tgtatctgct cacttcggcg tatatatgta atatgttgct tcttcagaga gatgaacttc 180
237 cccctaaaaa aaaaaaa 197
240 <210> SEQ ID NO: 15
241 <211> LENGTH: 177
242 <212> TYPE: DNA

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247 ggcagtcaaa tagtattccc tctttcagtg acaggctggc aggtgtttca ttcttataca 120
248 aacatgatta tcataattcc attaatcat ggcgttttct ttgccaaaaa aaaaaaa 177
251 <210> SEQ ID NO: 16
252 <211> LENGTH: 475
253 <212> TYPE: DNA
254 <213> ORGANISM: Pinus taeda
256 <400> SEQUENCE: 16
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259 gagagttgta gtgtgtaatt gattcatttc atacatttga tatgcaagcc tgtacaatag 180
260 cctgtgactg ttaagggcat tcttttgtct ccctgttgct atttggttt ccggtgtgtt 240
261 cattttcact tatttttgtg ttttagctgg aagaatttga gagggtagaa ttgtgtcatc 300
262 gctatggctt gtgcagact catgagccag cagttgaaac ttttatttat taagttataa 360
263 tactatgtct tgtcaattct caataaaaga tattttatgc tgttgggcag catctaaaat 420
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275 ttttaggcat ggtgcgcgat gagctgatag cgatgatgaa gaccaagacc accaaaggaa 180
276 gattcttcag agcaaaagct acggagacag aaccagagga ctcaaagccg gaatccattg 240
277 gtgaggtagc tgcaaatgtg tgatggacta actaagaagg ctccctgaga ggacccatta 300
278 agcacagtgt ttttaagtcc caaattctgt tgcaattccg ttgaaaatca tttttacgat 360
279 tttaggtagt atgtgtgcaa ttttaaagtt ggaattattg tgggcaaagg ctataagtga 420
280 ttgtctaata catttaattt attatctttt gactaagagc atatctaggc tggaagaaat 480
281 tagggcacat taatgtaagt tttgaatttg aacattctgg gttttgcaat gcaaaacacc 540
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285 <210> SEQ ID NO: 18
286 <211> LENGTH: 204
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292 tttctgtcca cccacttta gagtctcagt ttgtaaagca ctccctagga gctaaactca 120
293 tttccaatgg attaaagcac tccataggag ctaaactcat ttccaaggga tttttgtcca 180
294 tttctctgtg ctaaaaaaaa aaaa 204
297 <210> SEQ ID NO: 19
298 <211> LENGTH: 347
299 <212> TYPE: DNA
300 <213> ORGANISM: Pinus taeda
302 <400> SEQUENCE: 19
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304 aggcggccag aaagctttta aatgctaagc ctacaggtaa tattcacaac tgcattaagc 120

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:80; N Pos. 391,428,433,443,471,494,497,512
Seq#:82; N Pos. 330,349,364,368,411,431,447,461,476,478,480
Seq#:88; N Pos. 379,394,400,403,404,406,414,421,430,433,434,444,450,454,463
Seq#:88; N Pos. 470,476
Seq#:99; N Pos. 12,21,29,40,44,48,53,57,68,71,76,77,81,84,87,94,96,113,123
Seq#:99; N Pos. 125,132,135,136,137,139,143,159,161,166,170,174,193,195,196
Seq#:99; N Pos. 197,225,228,233,235,239,241,242,244,254,255,256,262,267,271
Seq#:114; N Pos. 24,25,54,71,75,77,85,111,119,124,153,177,187,194,213,242
Seq#:114; N Pos. 258,270,279,281,299,312,316,322,323,361,409,414,415,457
Seq#:114; N Pos. 458,468,480,481,487,489,493,511,515,558,565,575
Seq#:117; N Pos. 11,24,27,39,48,50,54,56,57,59,63,66,67,71,72,73,74,78,92
Seq#:117; N Pos. 96,112,113,126,146,167,173,184,186,197,203,206,252,254,258
Seq#:117; N Pos. 268,276,277,291,300,304,305,324,331,339,344,348,353,373
Seq#:117; N Pos. 380,401,416,430,433,444,472,475,481,484,485,497,502,506
Seq#:117; N Pos. 508,509,510,520,529,533,561,568,579,580
Seq#:118; N Pos. 237
Seq#:119; N Pos. 591,607,609,616
Seq#:153; N Pos. 307
Seq#:180; N Pos. 58
Seq#:327; N Pos. 879
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Seq#:328; N Pos. 985
Seq#:329; N Pos. 933,952,982
Seq#:330; N Pos. 918,934,943,991,1009,1025,1026,1030
Seq#:331; N Pos. 939,952,965,973,993
Seq#:332; N Pos. 994,998,1014
Seq#:334; N Pos. 953,973,981,1002,1004

VERIFICATION SUMMARY

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L:11 M:270 C: Current Application Number differs, Replaced Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:360
M:341 Repeated in SeqNo=80
L:1290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:300
M:341 Repeated in SeqNo=82
L:1456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88 after pos.:360
M:341 Repeated in SeqNo=88
L:1815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:0
M:341 Repeated in SeqNo=99
L:2220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114 after pos.:0
M:341 Repeated in SeqNo=114
L:2571 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:117 after pos.:0
M:341 Repeated in SeqNo=117
L:2597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118 after pos.:180
L:2636 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119 after pos.:540
M:341 Repeated in SeqNo=119
L:3118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:153 after pos.:300
L:3508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:180 after pos.:0
L:5567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:327 after pos.:840
L:5662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:328 after pos.:720
M:341 Repeated in SeqNo=328
L:5705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:329 after pos.:900
M:341 Repeated in SeqNo=329
L:5765 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:330 after pos.:900
M:341 Repeated in SeqNo=330
L:5816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:331 after pos.:900
M:341 Repeated in SeqNo=331
L:5857 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:332 after pos.:960
L:5925 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:334 after pos.:900
M:341 Repeated in SeqNo=334